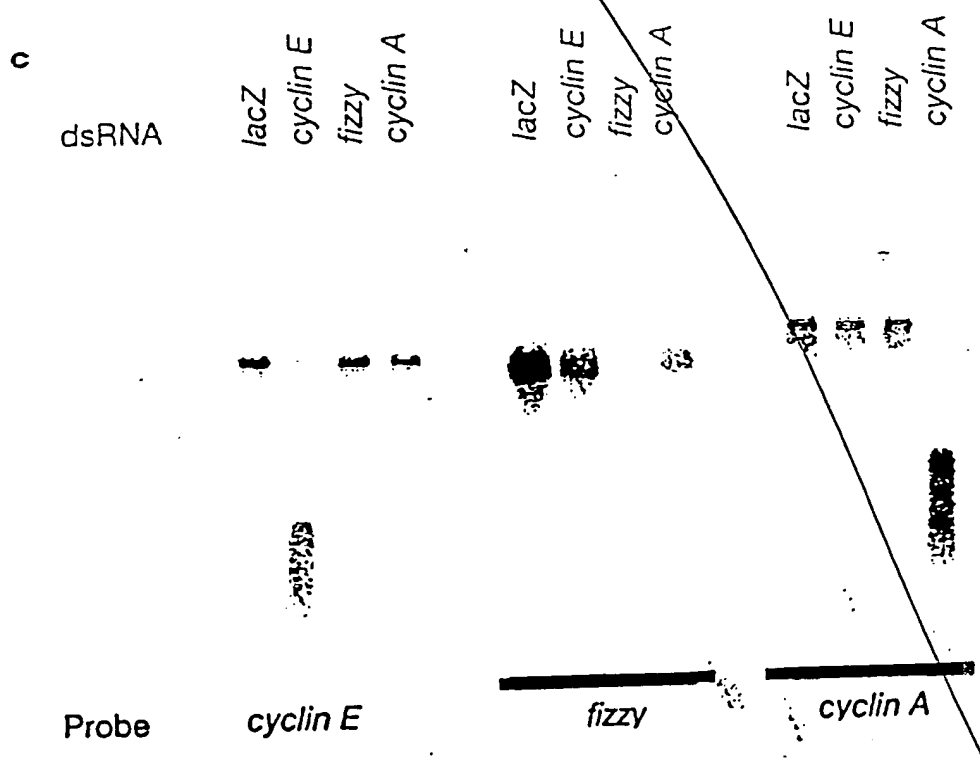
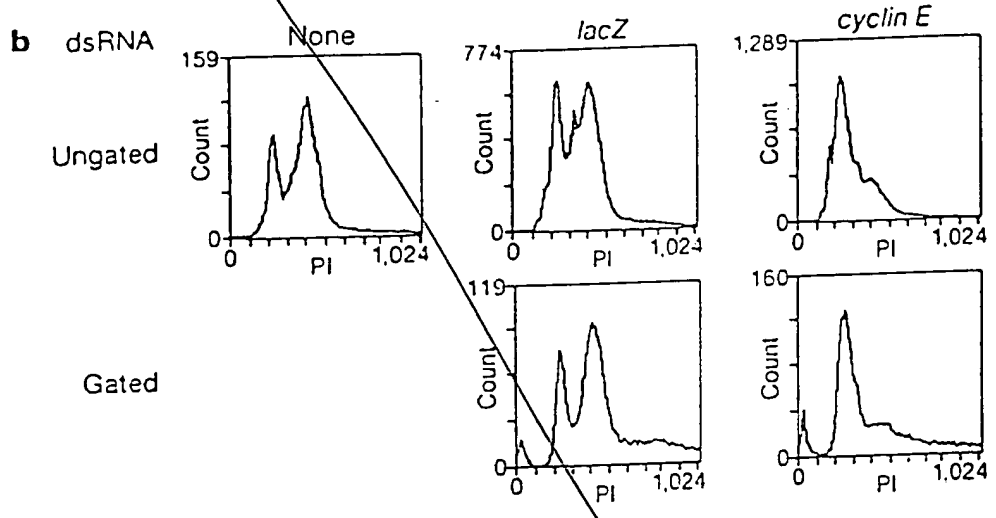
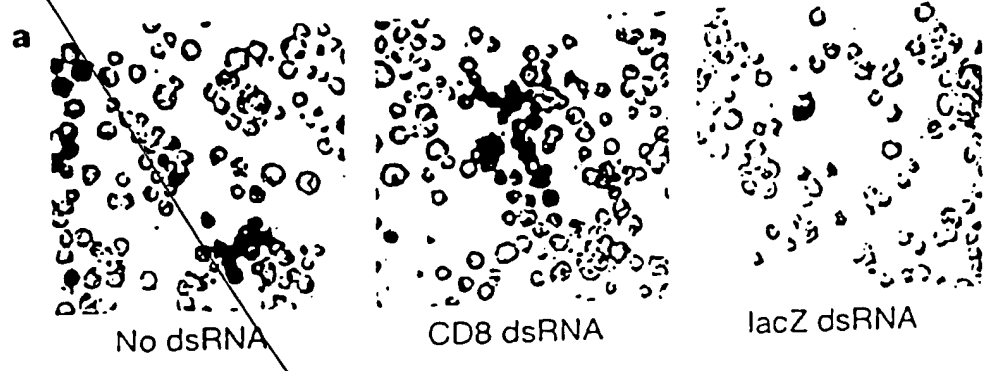
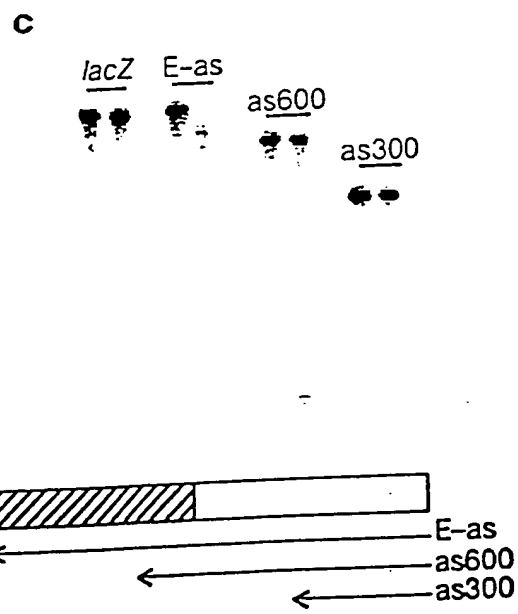
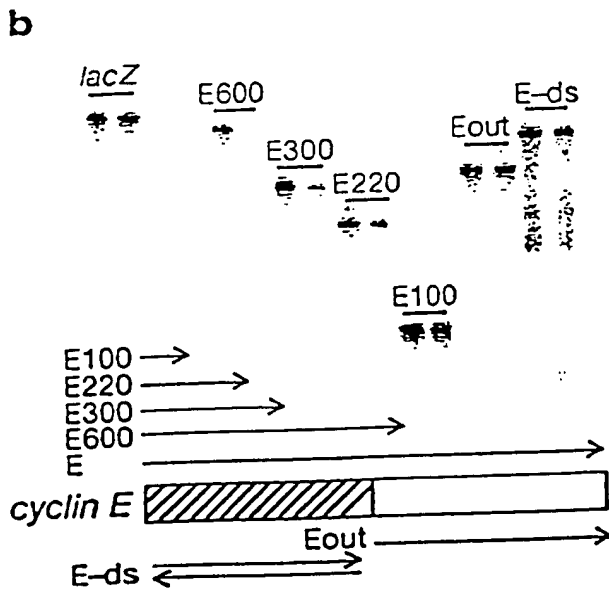
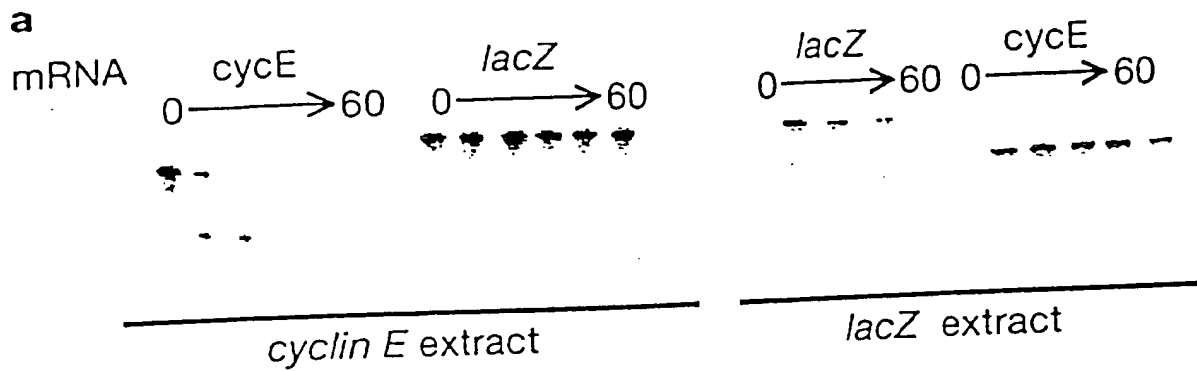


Figure 1



FOH250" 2559360

Figure 2



144 150 259990

Figure 3

114250" 25593040

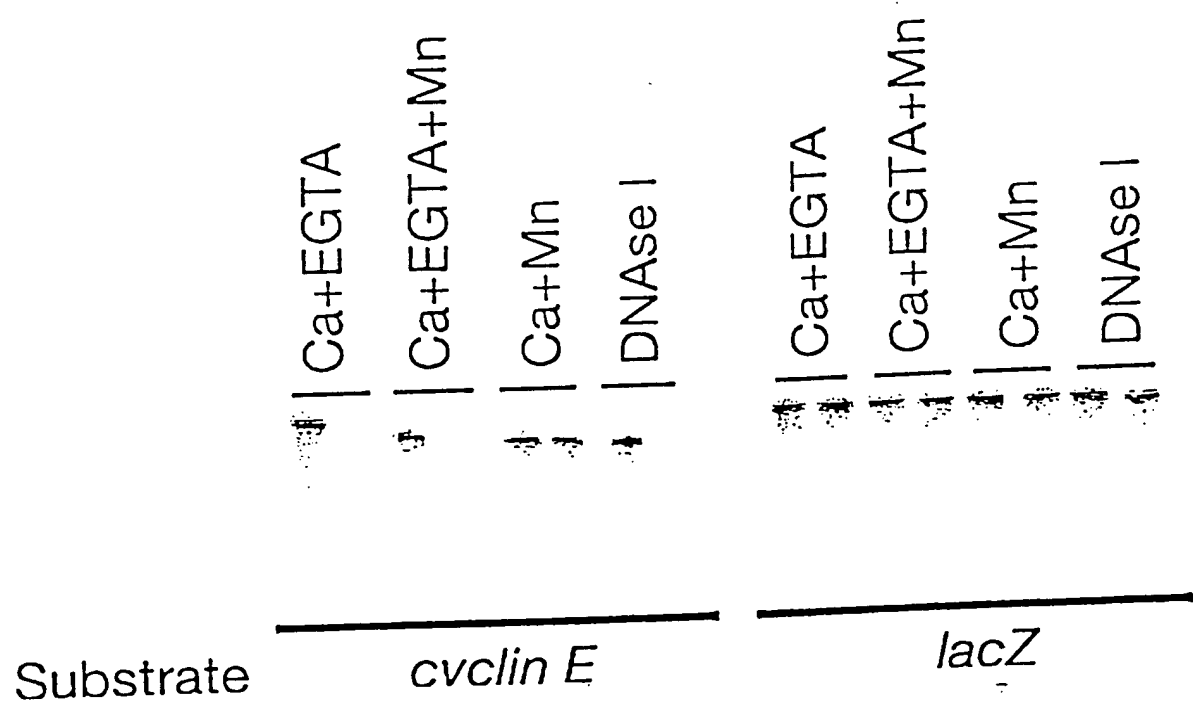
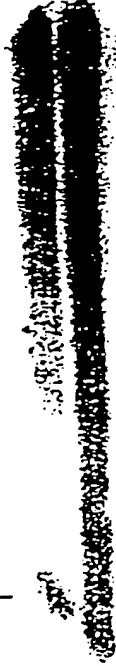


Figure 4

a

S100
Crude extract



~25 nt.—

b

lacZ

cyclin E

cyclin E
Northern

~25 nt.—

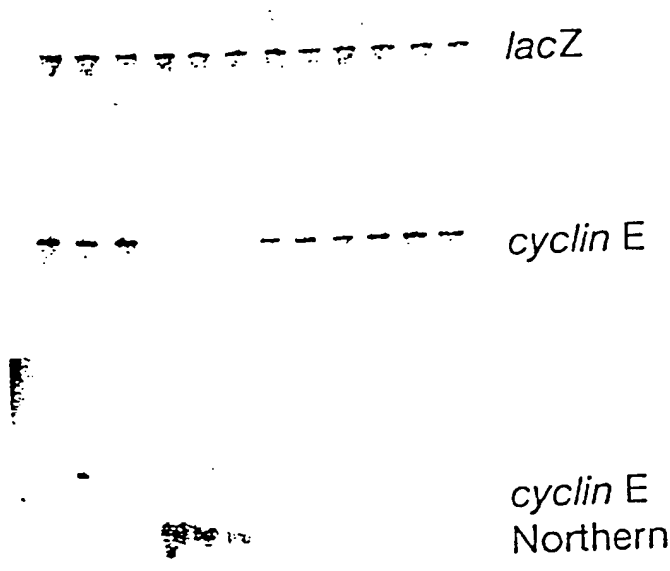
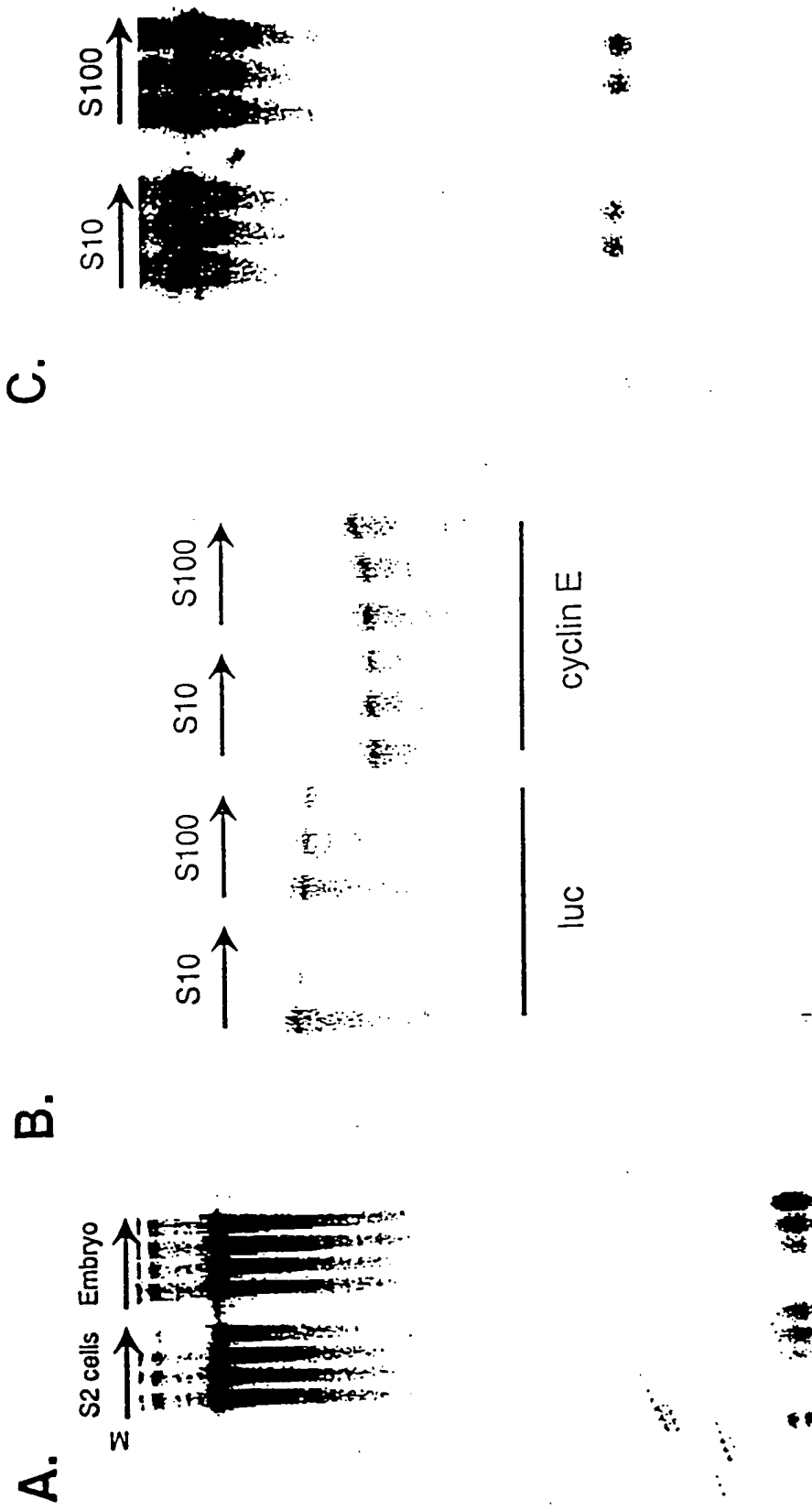
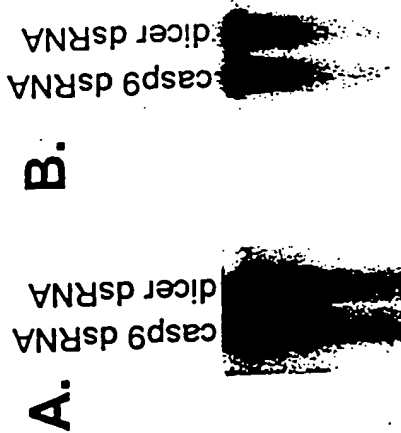


Figure 5



1074250 25599360

Figure 7



B.

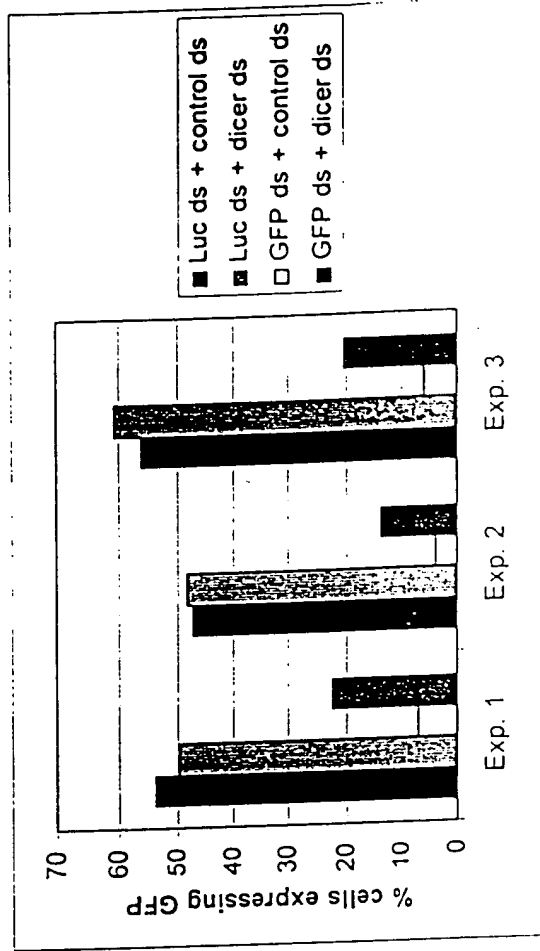
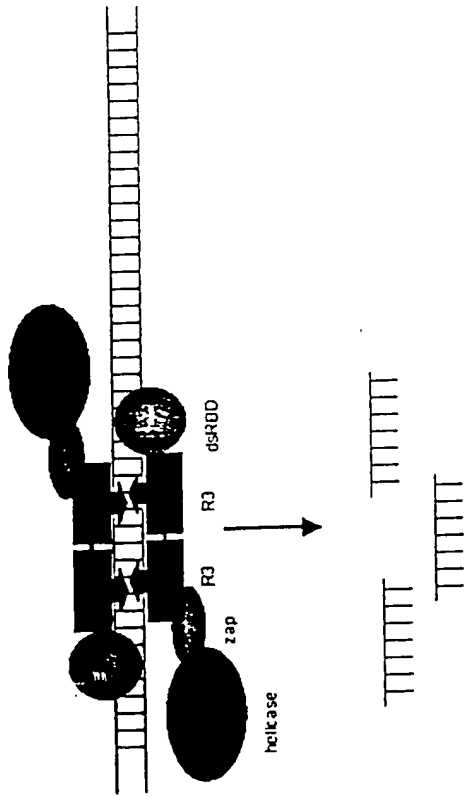


Figure 8A, B

A



B

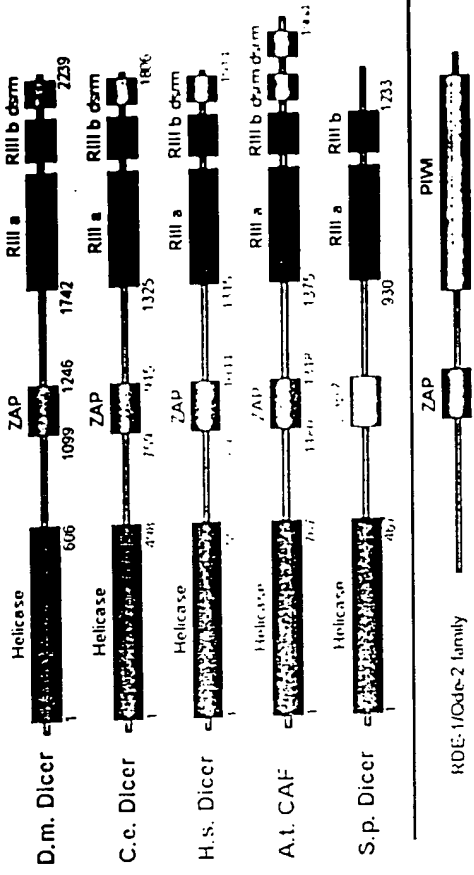


Figure 9

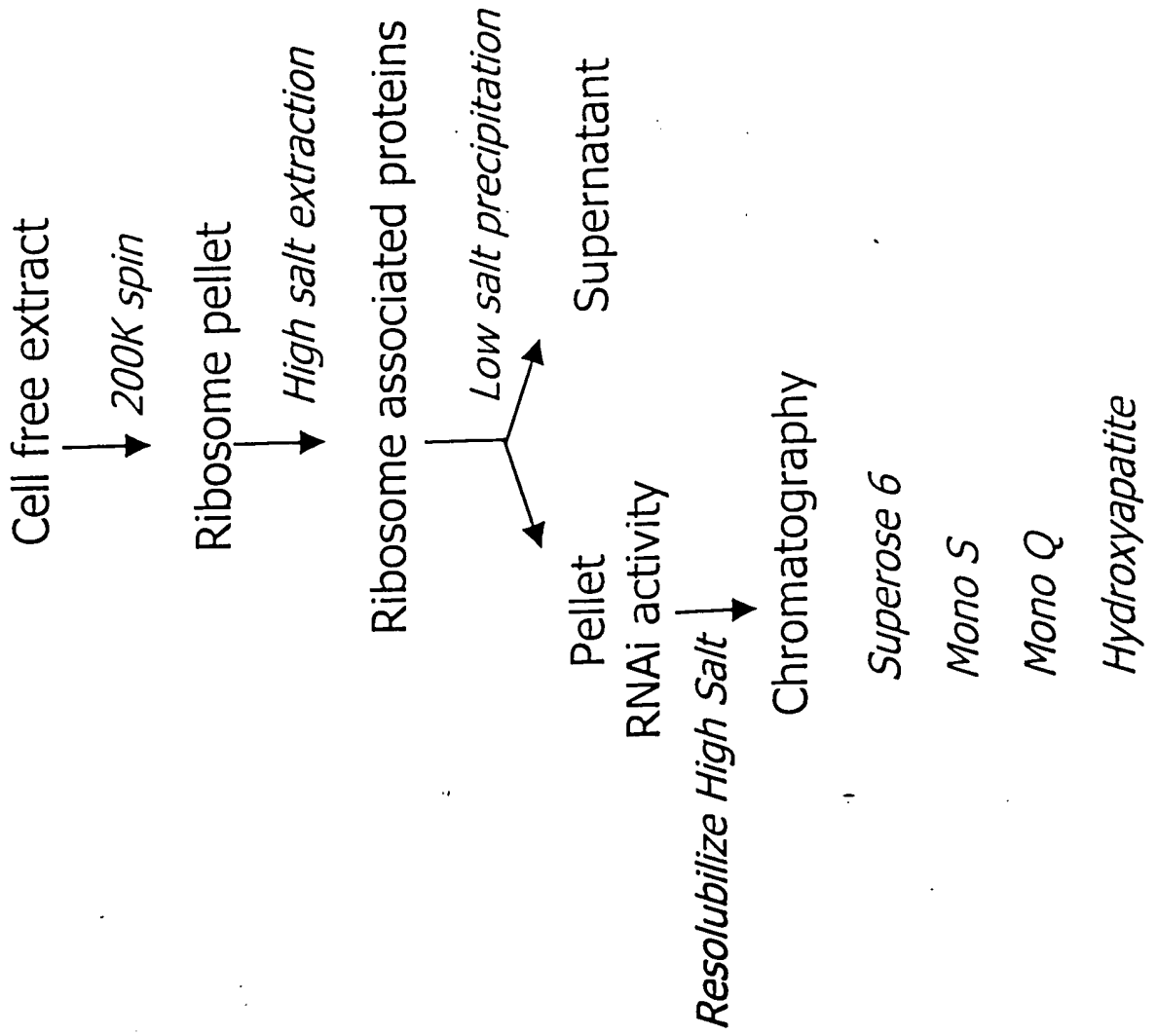
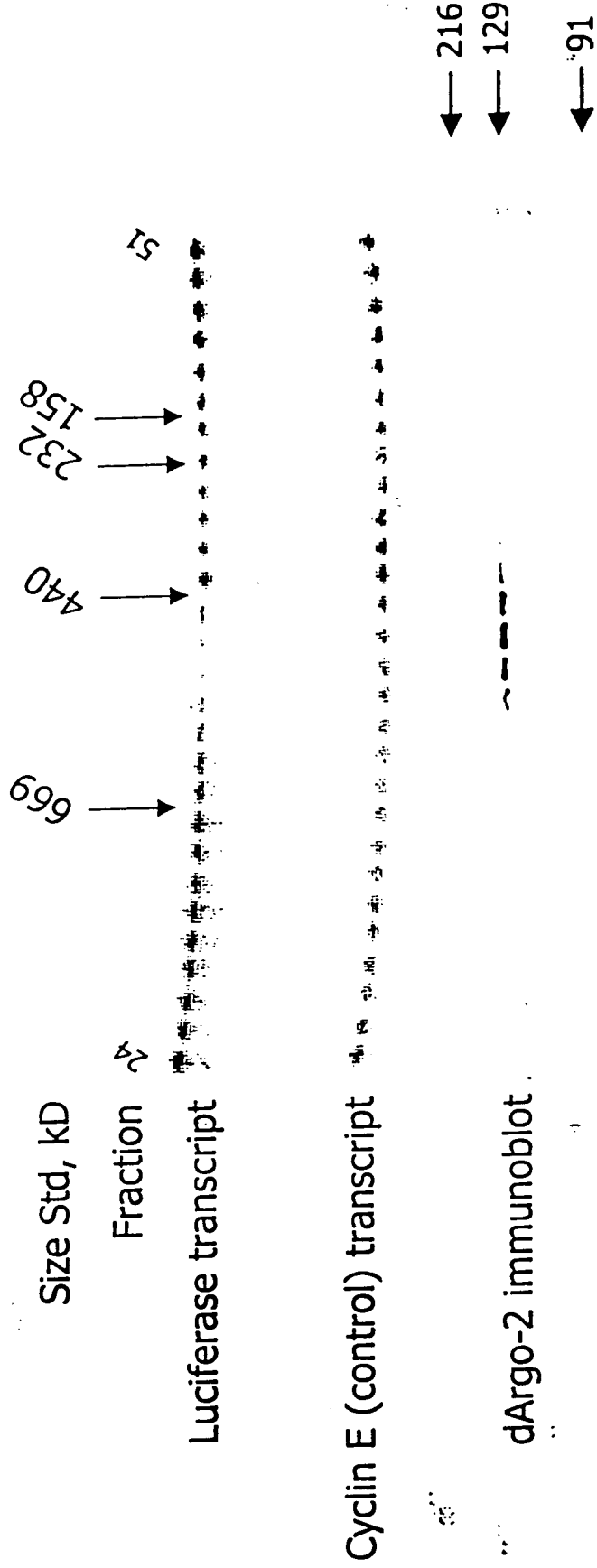
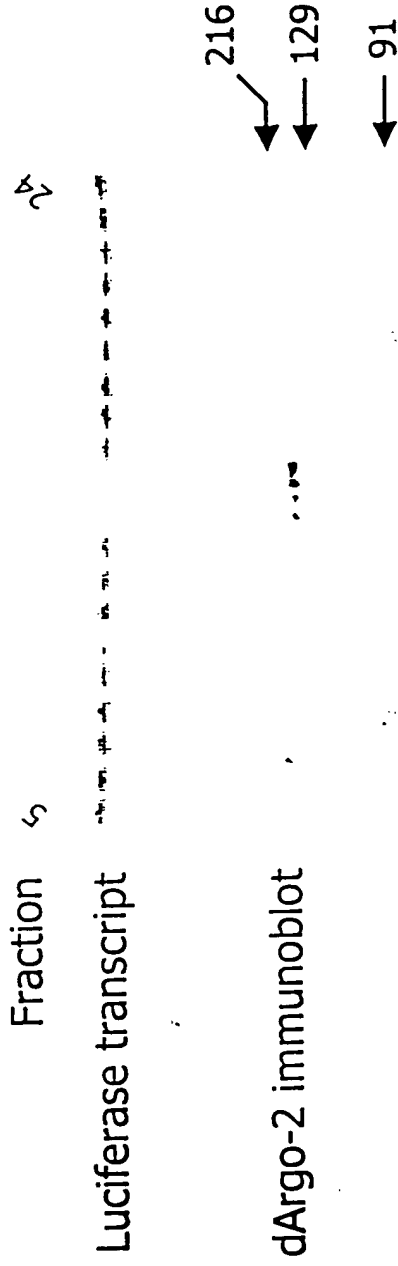


Figure 10



FOI250 25599860

Figure 11



104250" 25599860

Figure 12

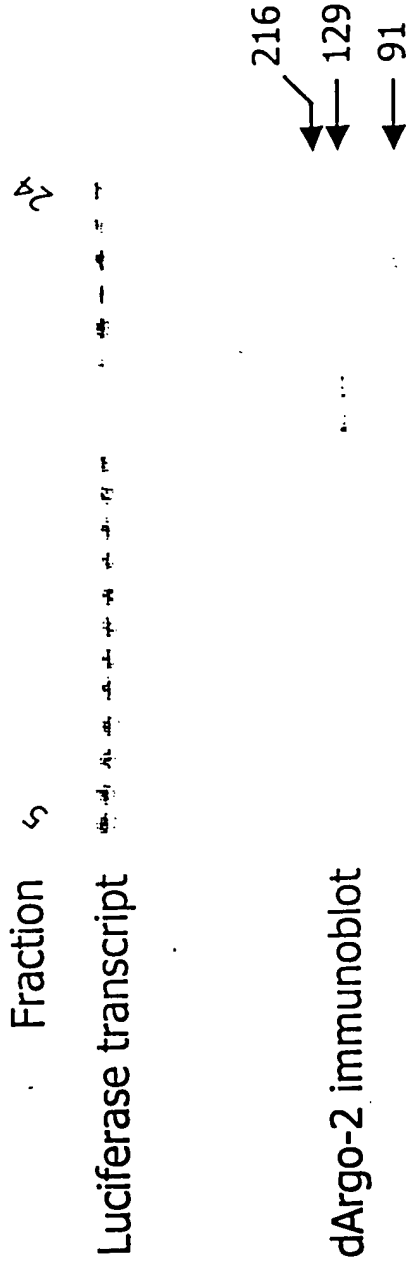


Figure 13

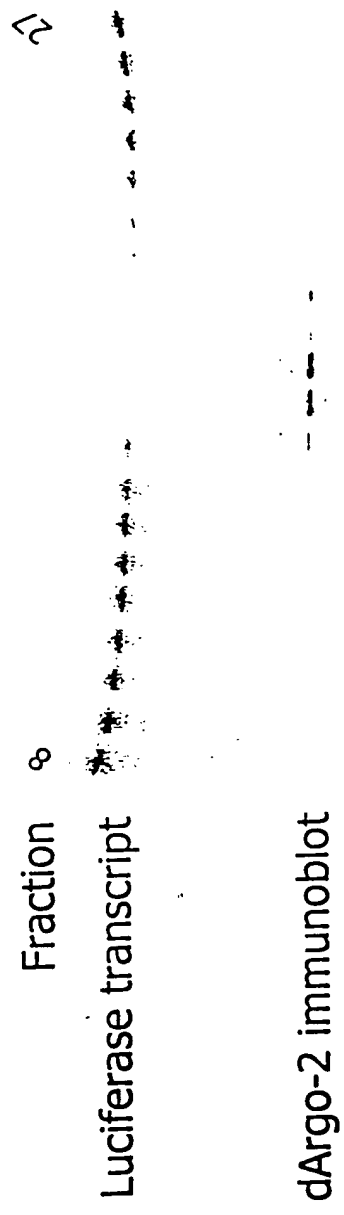
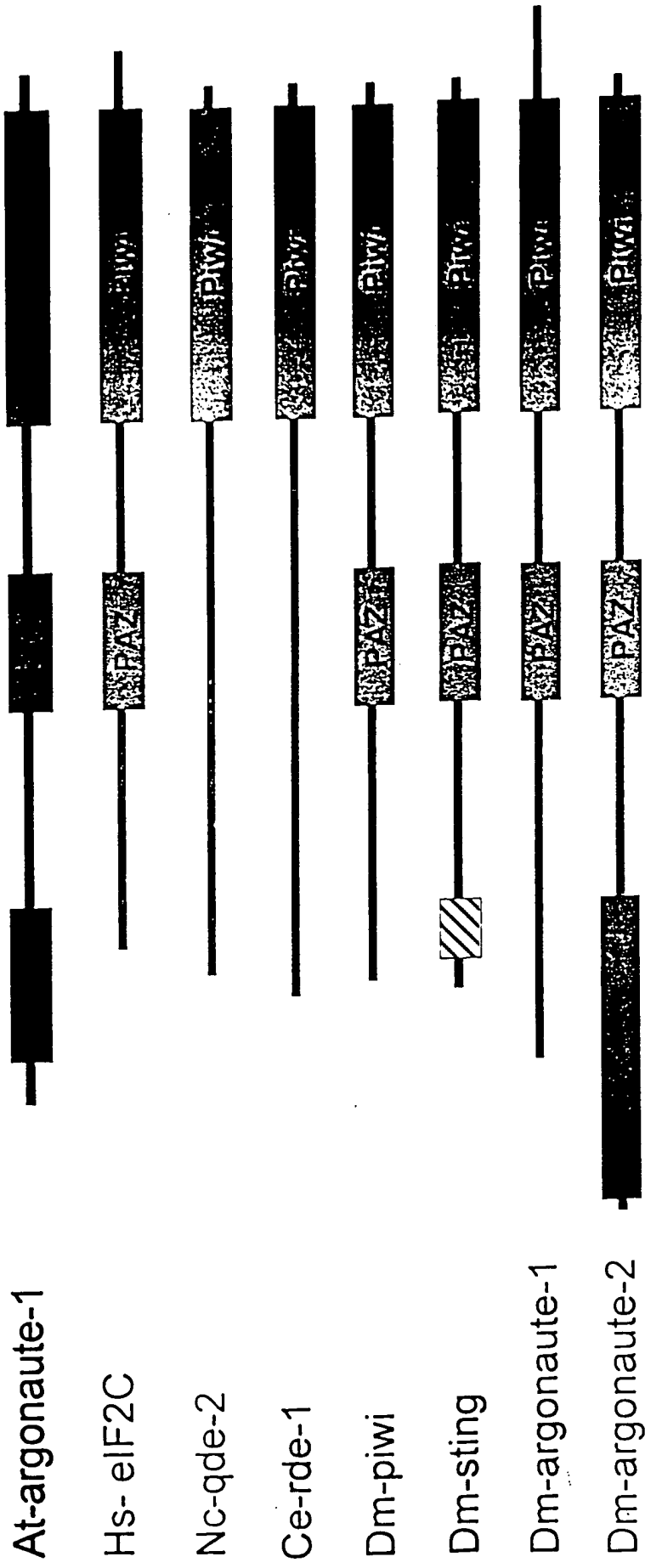


Figure 14



1041250" 25599860

Figure 16

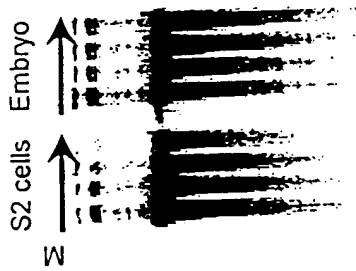
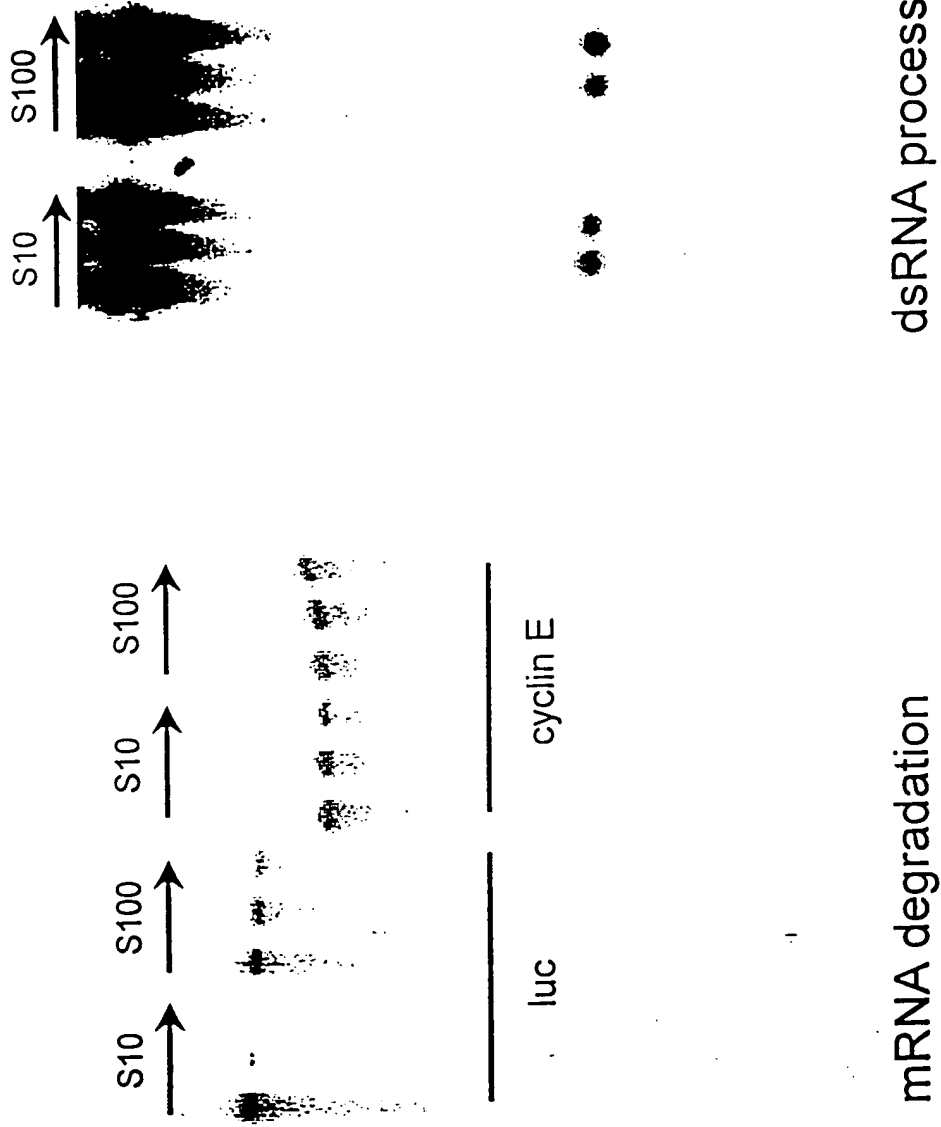
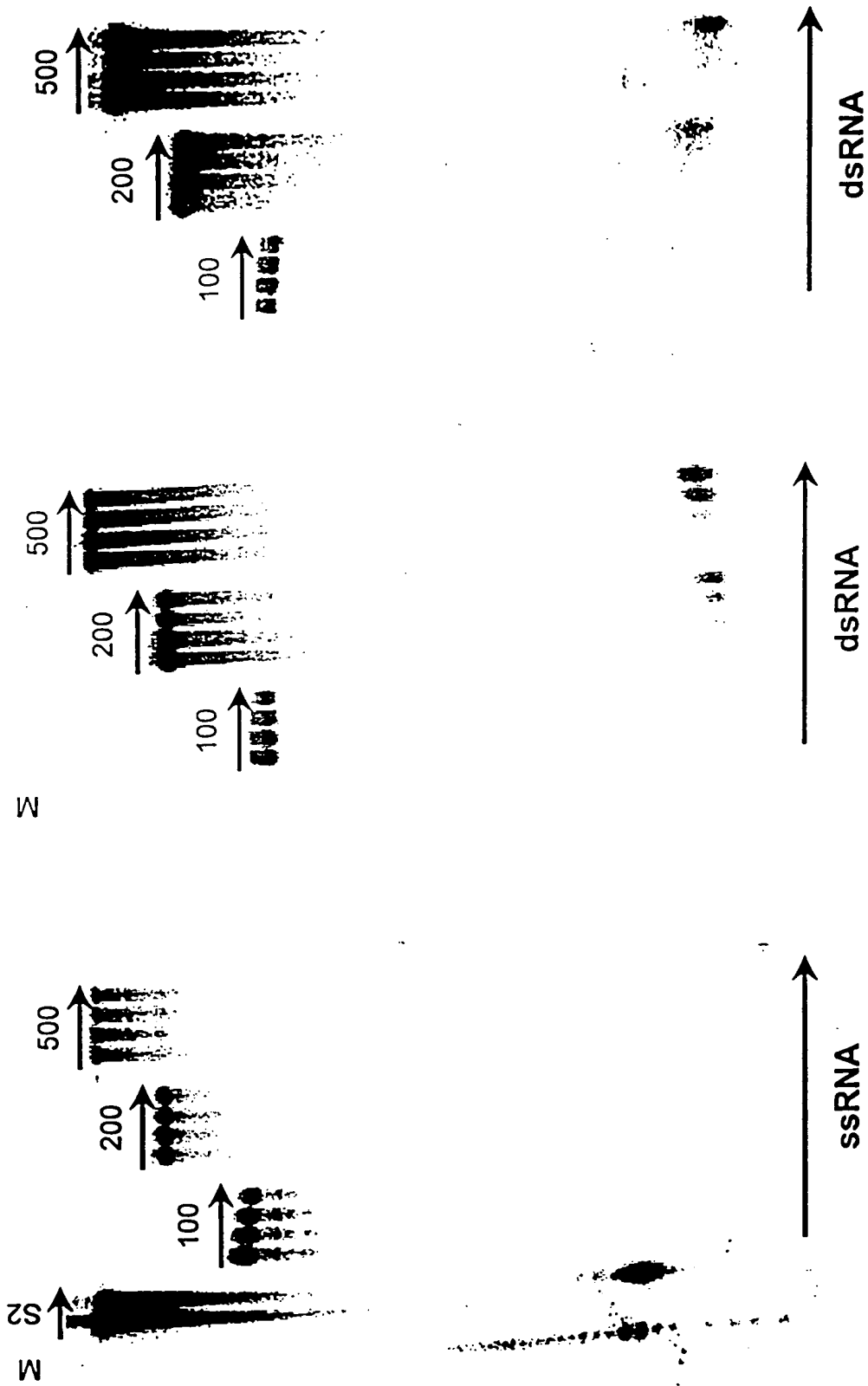


Figure 17



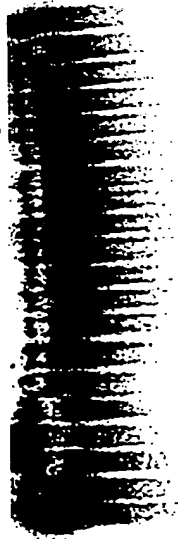
FOH250" 65599860

Figure 18

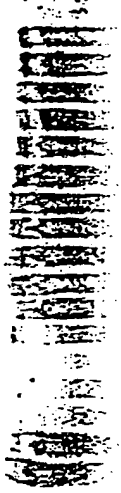


FOH2SD 25599860

Resource Phenyl



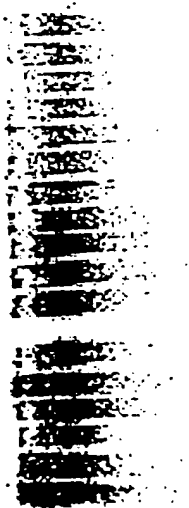
Q-sepharose



HAP



Superose



S-sepharose

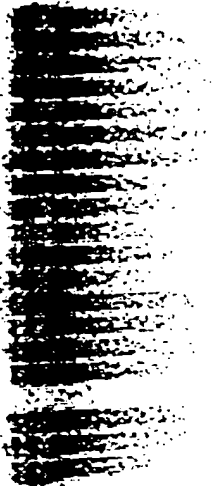
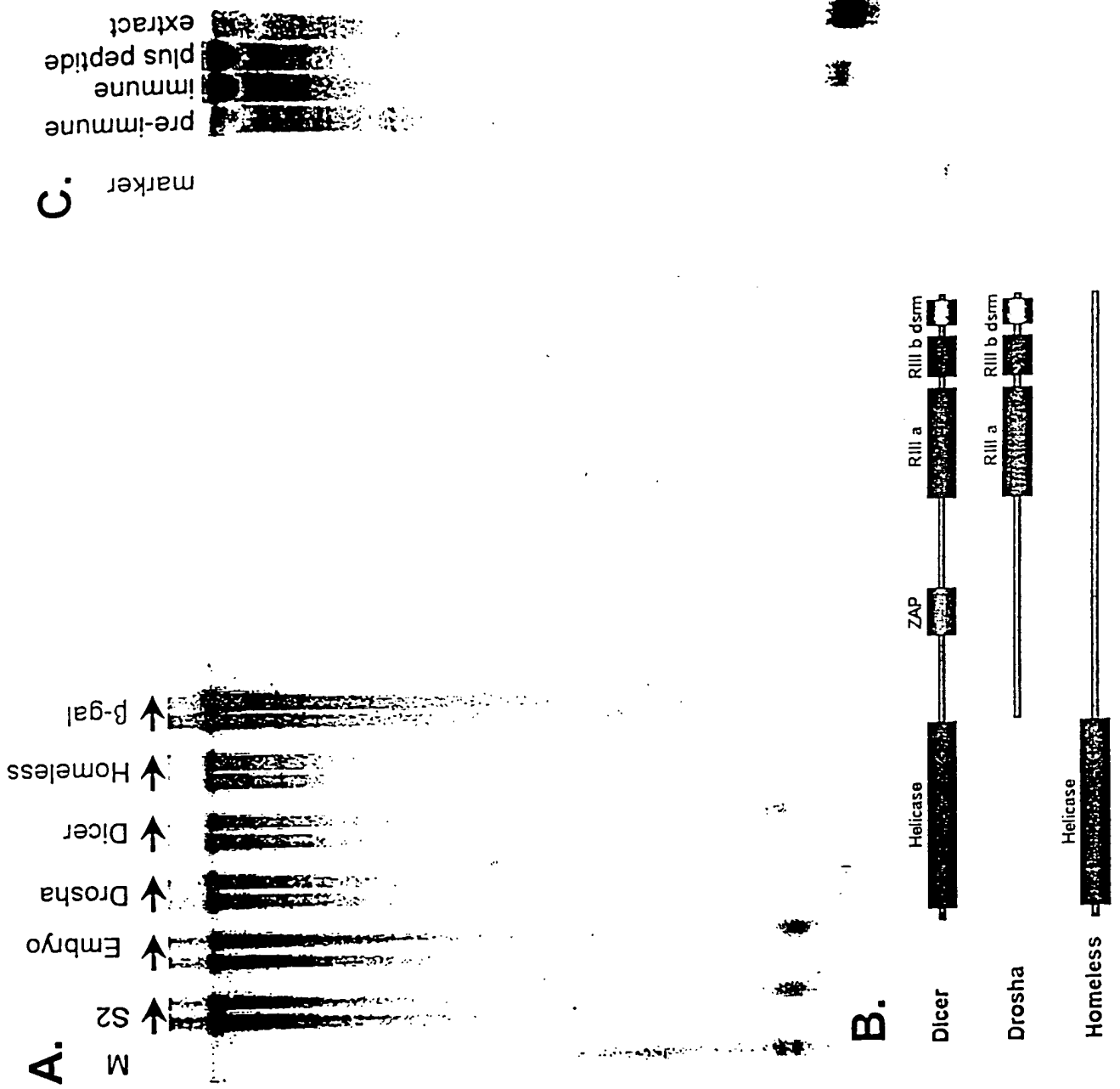


Figure 19

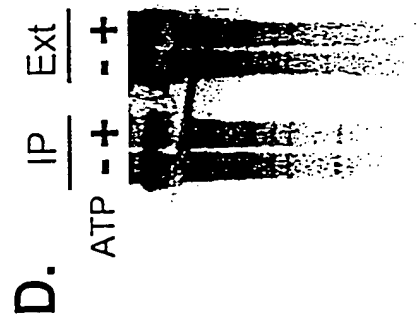
Purification of the 22-mer generating enzyme

Figure 20



104250" 49599860

Figure 21



104250" 25599860

Figure 22

Dicer IP
RISC
control
marker

ii

RISC - hs
RISC - ls

total

iii

15412

15412

0986557 0544

Figure 23

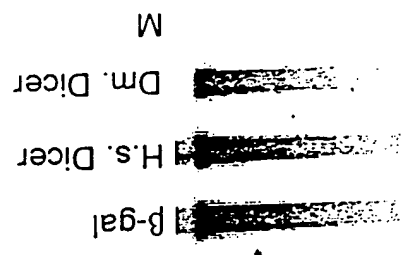
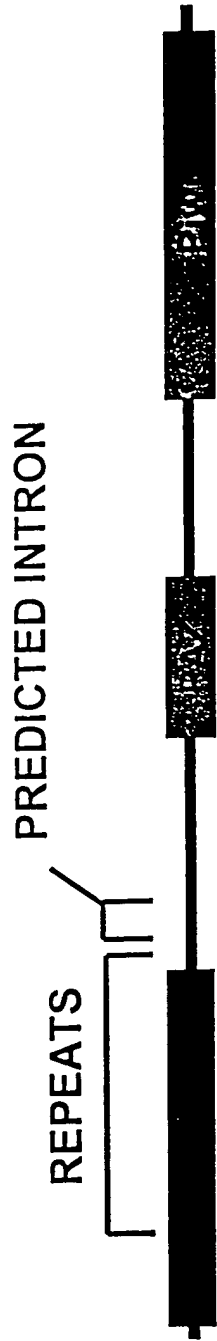


Figure 24

MGKKDKNKKGGQDSAAAPQPQQQKQQQQRQQPQQLQQPQQLQQPQQLQQPQQQQQQ
QPQQQQSSRQQPSTSSGSRASGFQQGGQQKSDAEGWTAQKKQKQVQGWTKQ
GQQGHQGRQGGYQQRPPGQQGGHQQGRQGGEGGYQQRPPGQQGGHQQGRQ
QEGGYQQRPSGQQGGHQQGRQGGEGGYQQRPPGQQGGHQQGRQGGEGGYQQRPSGQ
QQGGHQQGRQGGYQQRPSGQQGGHQQGRQGGEGGYQQRPSGQQGGHQQGRQGG
EGGYQQRPPGQQPNQTSQQYQSRGPPQQQAAPLPLPPQAGS IKRGTIGKPGQVG
INYLDDLKMPVAYHYDVKIMPERPKFYQAFEQFRVDQLGGAVLAYDGKASCYS
VDKPLNSQNPEVTVDRNGRTLRYTIEIKETGDSIDLKSLTTYMNDRI**FDKPMRAM**
QCVEVVLASPCHNKAI RVGRS**FFKMS**DPNNRHELDGDEALVGLYQAFMLGDRPFLNV
DISHKSFPI SMPMIEYLERFSLKAKIN**TNLDYS**RRFLEPFLRGINVVYTPPQSFQS
APRVYRVNGLS**RAPASSETFEHDKK**VVTIASYFHSRNYPLKFPQLHCLNVGSSIKSIL
LPIELCSIEEGQALNRKDGAQVANMIKYAATSTNVRKRKIMNLLQYFQHNLDPTISR
FGIRIANDFIVSTRVLSPPQVEYHSKRFTMVKNGSWRMDGMK**FLEPKPKAHKCAVLY**
CDPRSGRKMNYTQLNDFGNLII SQKAVNISLSDVTYRPFDDERSLDTIFADLKR
QHDLAIVII PQFRISYDTIKQKAEHQGILTCIKQFTVERKCNNQTI GNILLKINSK
LNGINHKKDDPRLPMMKNTMYIGADVTHSPDQREI PSVVGVAASHDPYGASYNMQY
RLQRGALEEIEDMFSITLEHLRVYKEYRNAYPDHII YYRDGVSDDGQFPRKIKNEELRCI
KQACDKVGCKPKICCVIVVKRHHTRFFPSGDVTTSNKFNNVDPGT'VVDRTI VHPNEMQ
FFMVSHQAIQGTAKPTRYNVIENTGNLDIDLQQLTYNLCHMFPRCNRSVSYPAPAYL
AHLVAARGRV**YLTGTNR**FLLDKKEYAKRTIVPEFMKKNPMYFV

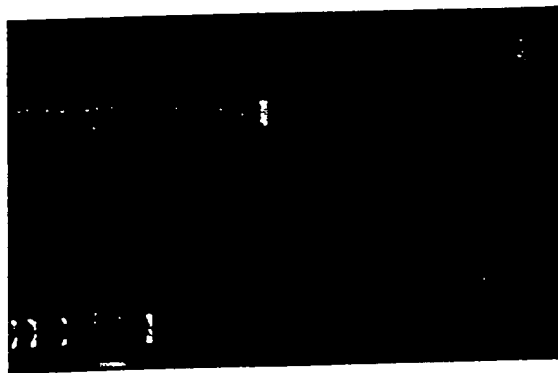
104250 25539460

Figure 25



S2 genomic
S2 cDNA
Library clone #7
Argo-2/p12
No template

Embryo
Adult
S2



00065557 25599900

Embryo extract

untransfected
hdicer transfected

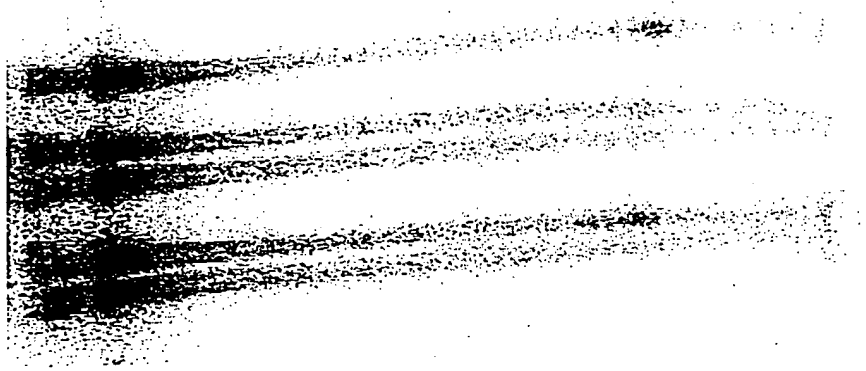
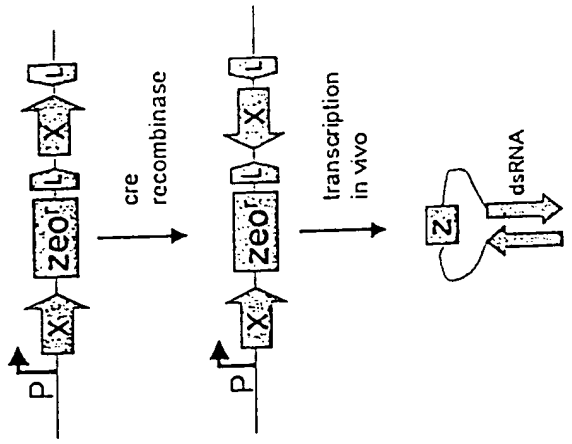


Figure 26

Figure 27



Dual luciferase assay 21hrs post-transfection (.4ug dsRNA)

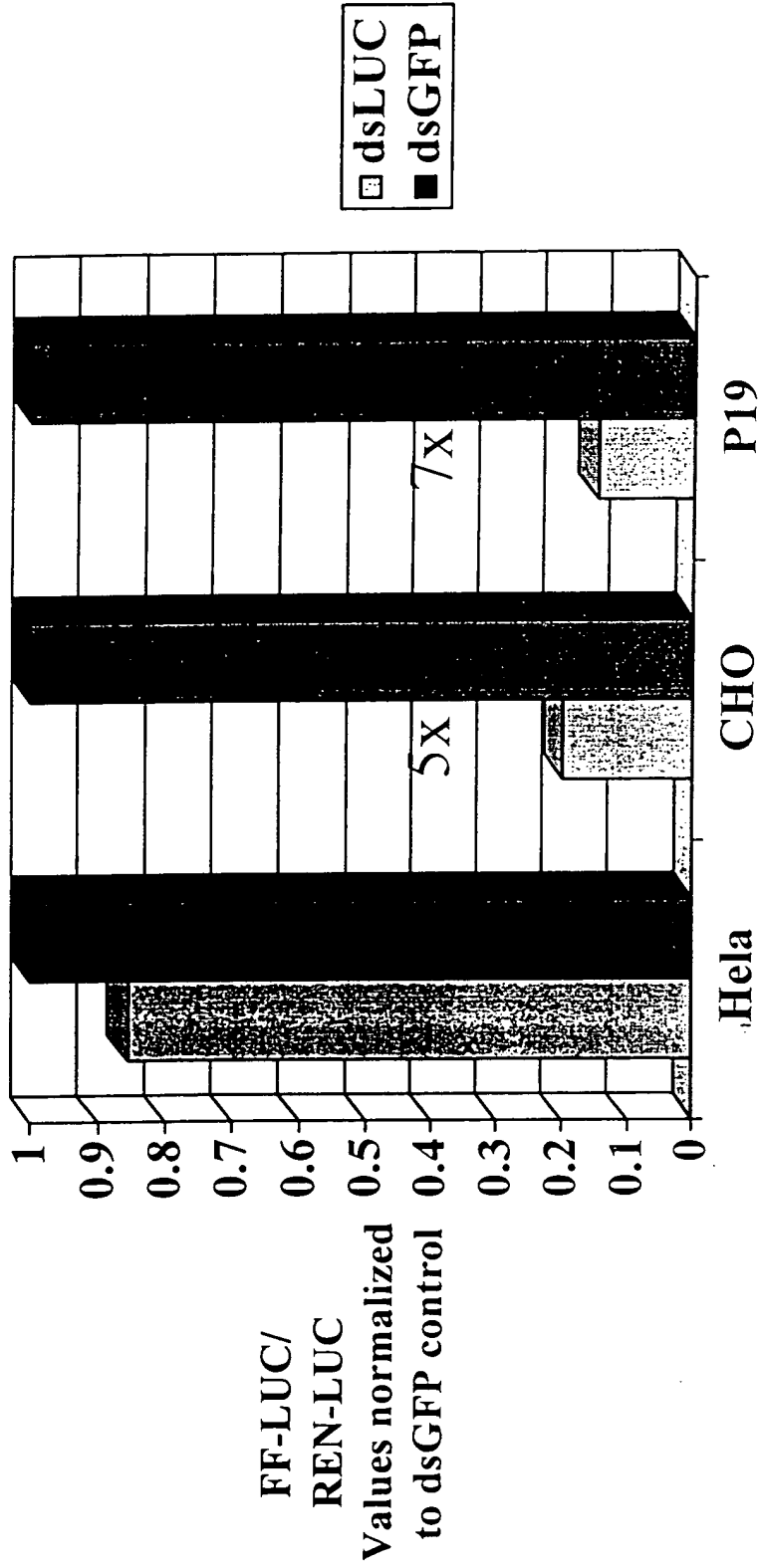


Figure 28

Dual luciferase assay with P19 cells (.5ug dsRNA)

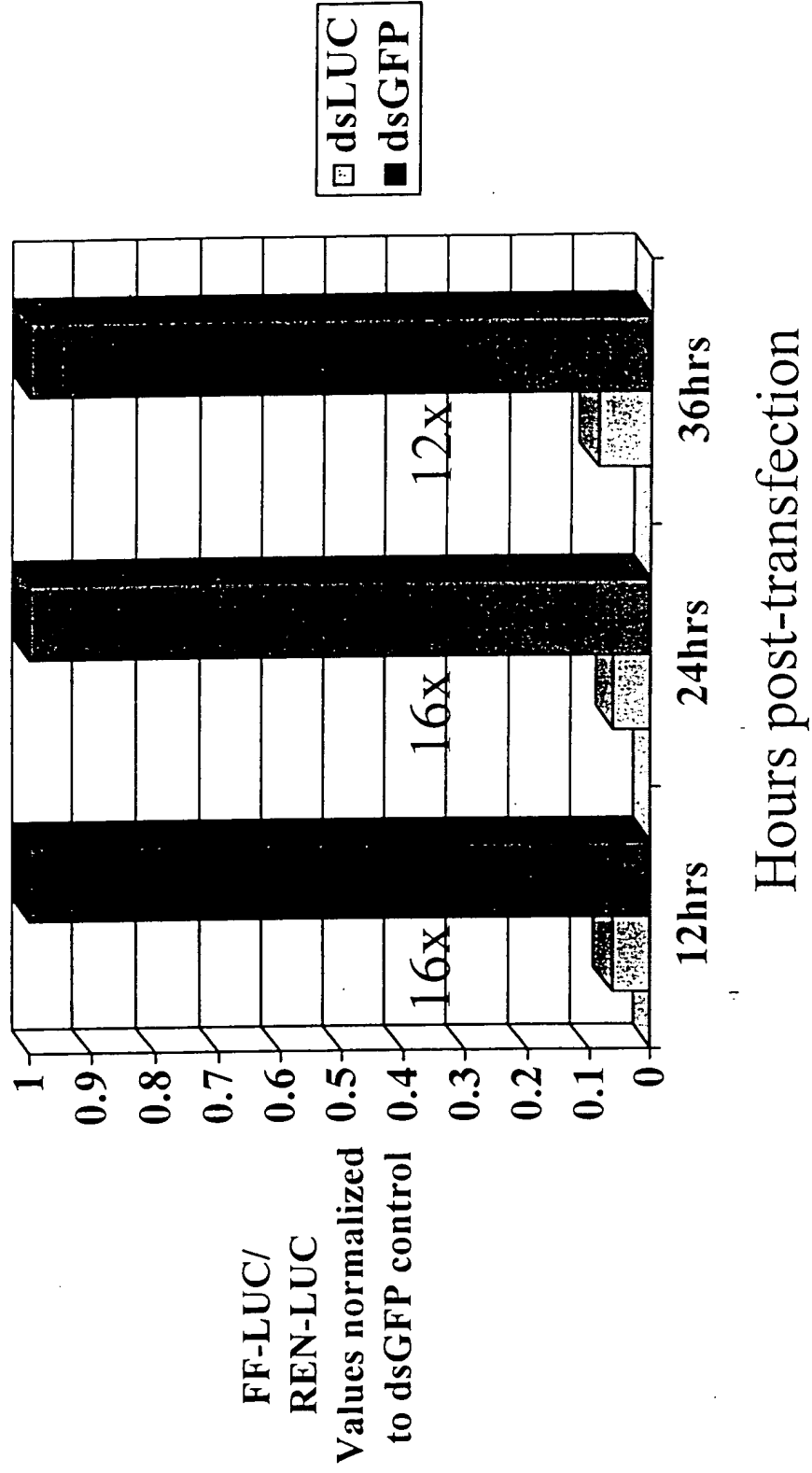


Figure 29

Dual luciferase assay using *in vitro* translation in P19 extracts

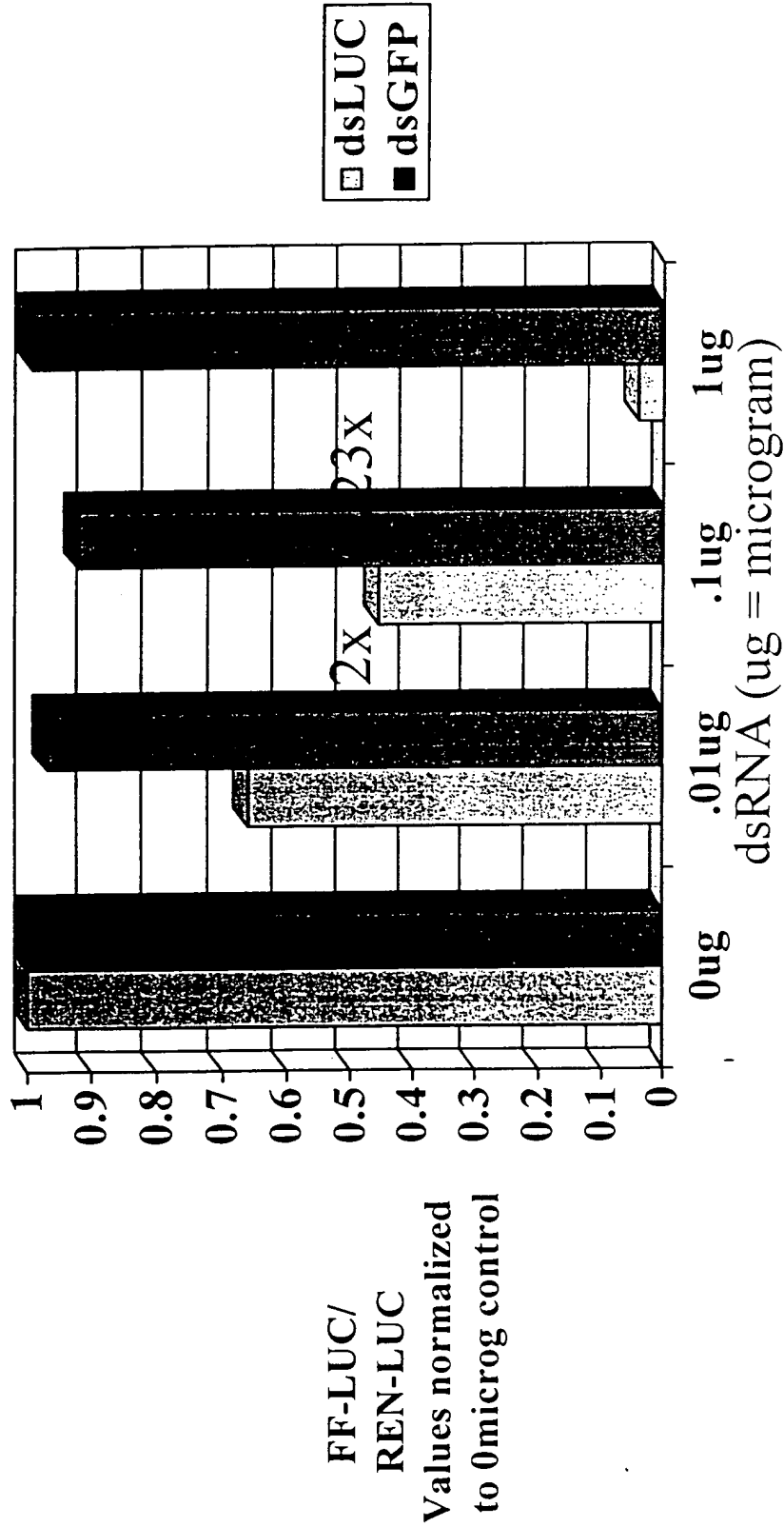


Figure 30

Suppression of luciferase activity is dsRNA-specific for *in vitro* translation assay

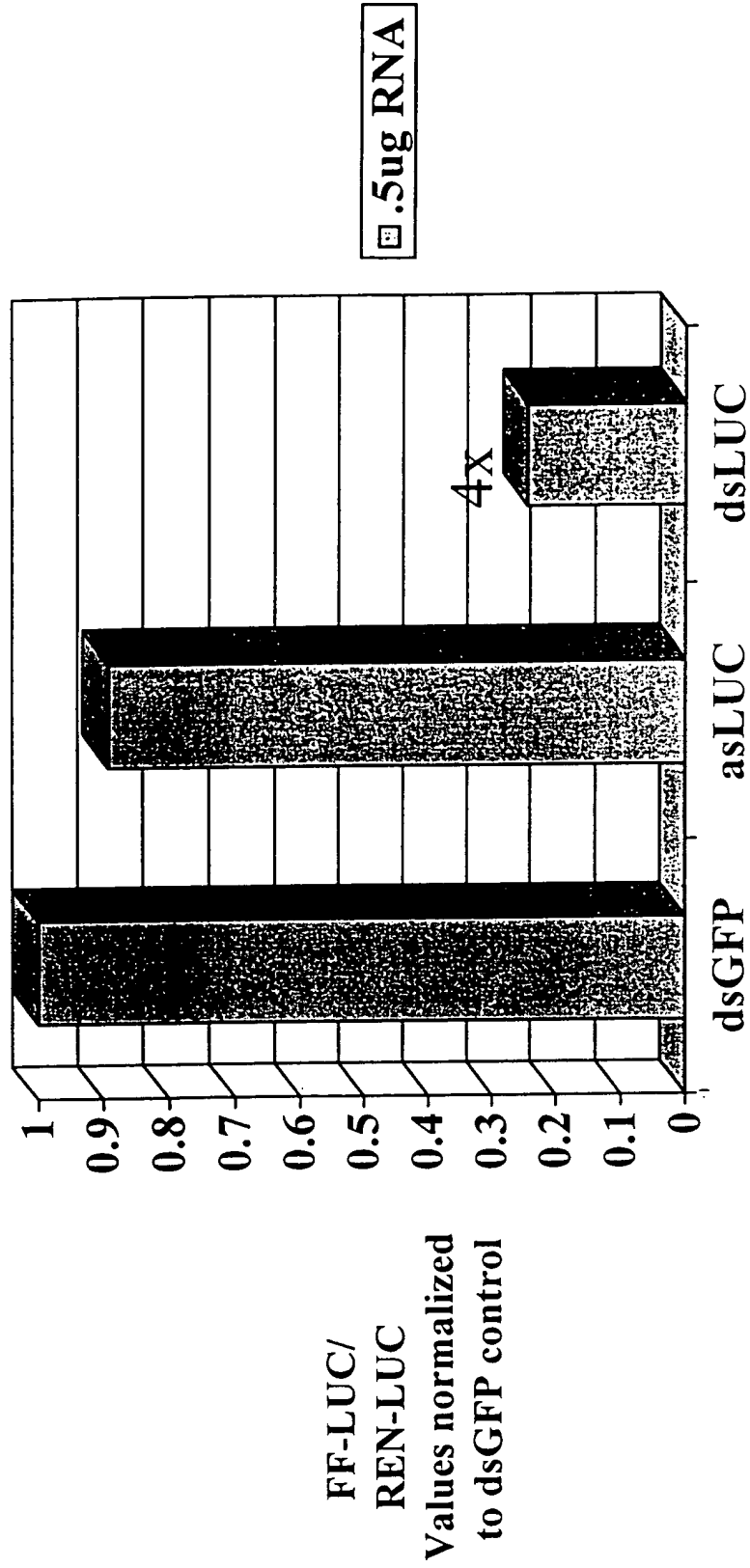


Figure 31

P19 cells soaked with various amounts of dsRNA for 12hrs in 2mL growth medium (alpha MEM, 10% FBS)

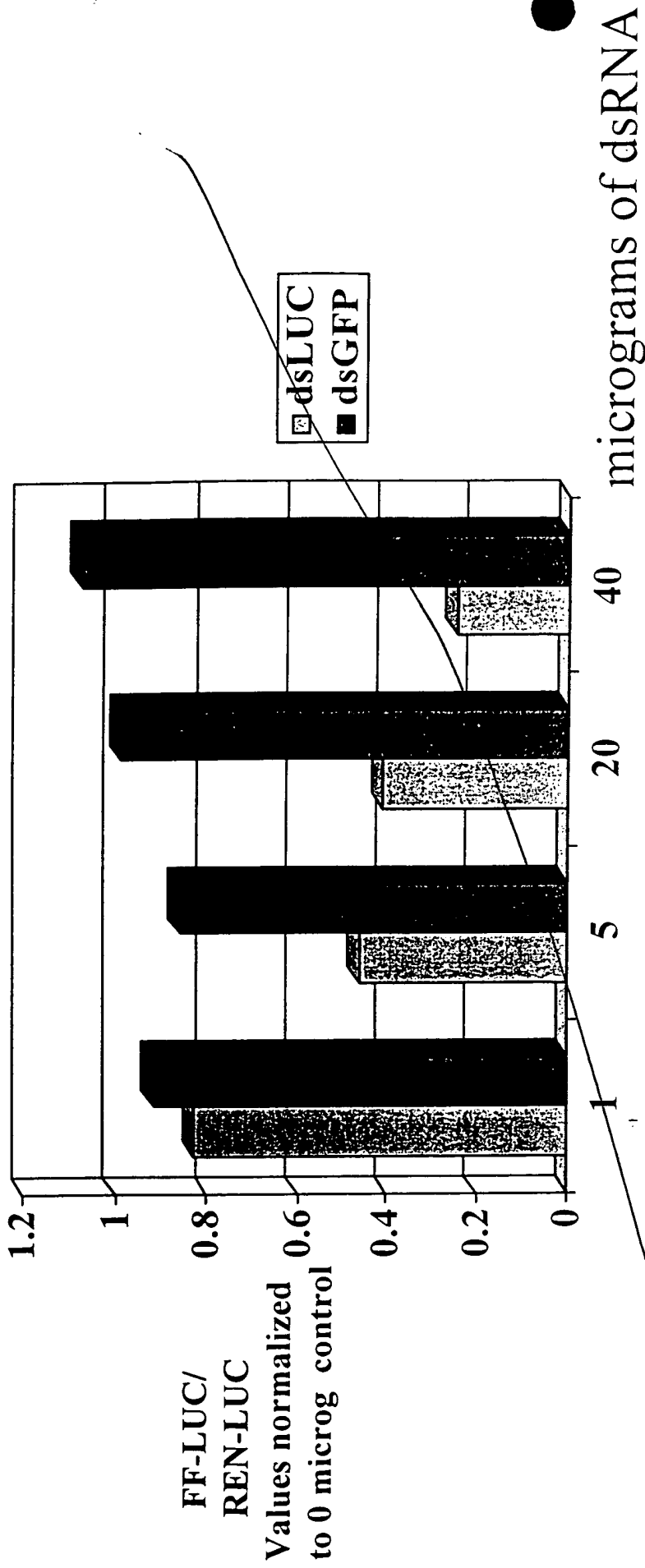
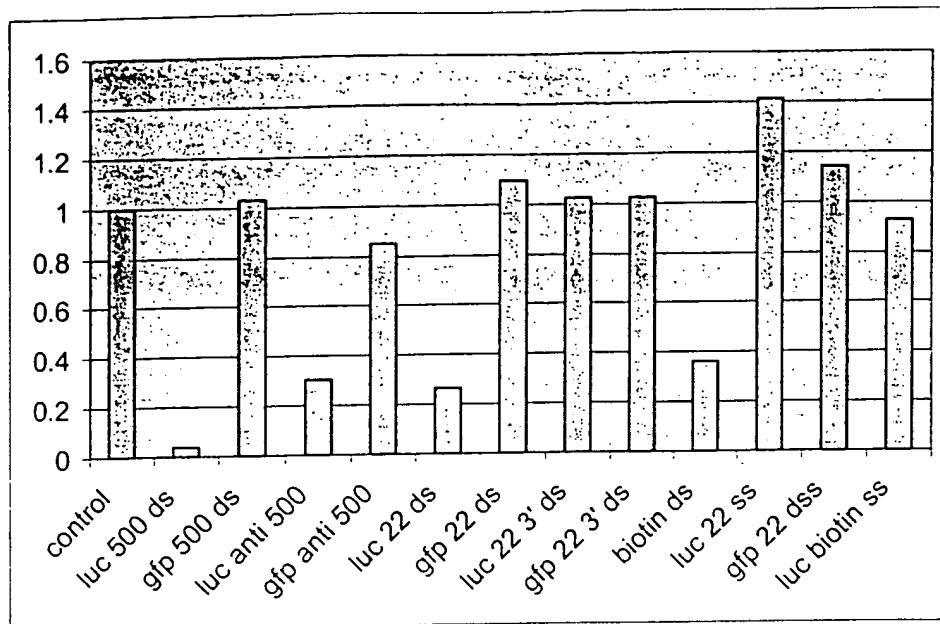


Figure 32

Figure 33



104250" 2599960